

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Chun Wang, Benjamin XY Li, Xin Cheng,
Jing Liu, Li-Wen Niu, Wan-Zhi Huang,
Zhen-Yu Xu, Dan Luo, Lian-Di Kang,
Jin-Guo Ding, Fang Rong, Yan Liu,
Hui-Ran Chen

(ii) TITLE OF INVENTION: AN ANTITHROMBOSIS ENZYME FROM THE
SNAKE VENOM OF AGKISTRODON ACUTUS

(iii) NUMBER OF SEQUENCES: 4

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Lyon & Lyon
(B) STREET: 633 West Fifth Street
(C) CITY: Los Angeles
(D) STATE: California
(E) COUNTRY: USA
(F) ZIP: 90071

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
(B) COMPUTER: IBM compatible
(C) OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
(D) SOFTWARE: WordPerfect (Version 5.1)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Chen, Anthony C.
(B) REGISTRATION NUMBER: 38,673

(C) REFERENCE/DOCKET NUMBER: 233/298

(ix) TELECOMMUNICATION INFORMATION:

5 (A) TELEPHONE: (213) 489-1600
(B) TELEFAX: (213) 955-0440
(C) TELEX: 67-3510

(2) INFORMATION FOR SEQ ID NO: 1:

10 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 544
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION : SEQ ID NO: 1:

GAAGGGCATT GCTACAAGGT CTTCAAACAA TCTAAGACCT GGACAGATGC 50
AGAGAGCTTC TGCACGAAGC AGGTGAACGG GGGGCATCTG GTCTCTATCG 100
AAAGCTCCGG AGAAGCAGAC TTTGTGGGCC AGTTGATTGC TCAGAAGATA 150
AAGTCAGCCA AAATCCATGT CTGGATCGGA CTGAGGGCTC AAAACAAAGA 200
AAAGCAATGC AGCATAGAGT GGAGCGATGG CTCCAGCATC AGTTATGAGA 250
ATTGGATTGA AGAAGAATCC AAAAAGTGTC TTGGGGTGCA CATAGAGACA 300
GGGTTTCATA AGTGGGAGAA TTTTACTGT GAACAACAAG ATCCTTTTGT 350
CTGCGAGGCA TAGTCTGAAG ATCCAGCTGA TTGAAGTCTG GAGAAGCAAG 400
GAAGCCCCC ACCCCATCCC CCAACCCTGC CTAGCCACAA TCTCTGCTAT 450
GCACCCTTTG CTCAACGGAT GCTCTCTGTA GCTGGATCTG GTGTTGCTGC 500
TCCTGATGGG CCGGAAGTCA ATAAATTCTG CCTAGCCTGA AAAA 544

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 129

(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION : SEQ ID NO: 2

10 Asp Cys Ser Ser Asp Trp Ser Ser Tyr Glu Gly His Cys Tyr Lys
Val Phe Lys Gln Ser Lys Thr Trp Thr Asp Ala Glu Ser Phe Cys
Thr Lys Gln Val Asn Gly Gly His Leu Val Ser Ile Glu Ser Ser
15 Gly Glu Ala Asp Phe Val Gly Gln Leu Ile Ala Gln Lys Ile Lys
Ser Ala Lys Ile His Val Trp Ile Gly Leu Arg Ala Gln Asn Lys
Glu Lys Gln Cys Ser Ile Glu Trp Ser Asp Gly Ser Ser Ile Ser
20 Lys Glu Asn Trp Ile Glu Glu Glu Ser Lys Lys Cys Leu Gly Val
His Ile Glu Thr Gly Phe His Lys Trp Glu Asn Phe Tyr Cys Glu
25 Gln Gln Asp Pro Phe Val Cys Glu Ala

(2) INFORMATION FOR SEQ ID NO: 3:

30 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 29
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

35 (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION : SEQ ID NO: 3

40 Asp Cys Ser Ser Asp Trp Ser Ser Tyr Glu Gly His Cys Tyr Lys

Val Phe Lys Gln Ser Lys Thr Trp Thr Asp Ala Glu Ser Phe

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 17
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION : SEQ ID NO: 4

Asp Cys Pro Ser Glu Trp Ser Ser Tyr Glu Gly Phe Cys Tyr Lys
Pro Phe